

# Notice of Allowability

Application No.

10/688,968

Examiner

Rakesh Kumar

Applicant(s)

KANG, SUNG-WOOK

Art Unit

3654

## -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Remarks filed 03/24/2006.
2. ☒ The allowed claim(s) is/are 1-8 and 10-16.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

### Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

## **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

1. The following is an examiner's statement of reasons for allowance:
2. The claim 1 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: a clutch enlinking the pickup drive shaft and the link housing enabling the link housing to pivot by a predetermined angle by rotation of the pickup drive shaft in a first direction of the motor, the clutch comprising first and second portions respectively in contact with first and second outer surface of the link housing so that the link housing is between the first and second portions.
3. The claim 2 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: a clutch enlinking the pickup drive shaft and the link housing enabling the link housing to pivot by a predetermined angle by rotation of the pickup drive shaft, wherein the clutch comprises: a fixing member on the pickup drive shaft and in contact with a first side of an outer surface of the link housing, and a press on the pickup drive shaft, pressing the link housing towards the fixing member.

4. The claim 7 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: a clutch enlinking the pickup drive shaft and the link housing enabling the link housing to pivot by a predetermined angle by rotation of the pickup drive shaft, wherein the link housing comprises: a pickup drive gear to drive the pickup roller; a first link housing on the pickup drive shaft to cover the pickup drive gear on the pickup drive shaft; and a second link housing in the first link housing to pivot by a predetermined angle and having a pickup roller gear geared with the pickup drive gear rotating the pickup roller.

5. The claim 8 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: when the pickup drive shaft rotates in a first direction and the pickup roller comes in contact with paper, the link housing is prevented from pivoting, a slip occurs between the link housing and portions of the rotating pickup drive shaft on opposite sides of the link housing due to the clutch, and the pickup drive shaft forces the pickup roller to engage.

6. The claim 11 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: wherein the clutch comprises: a fixing member on the pickup drive

shaft in contact with a first outer surface of the link housing; and a press on the pickup drive shaft pressing the link housing towards the fixing member.

7. The claim 15 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: when the pickup drive shaft rotates in the first direction and the pickup roller comes in contact with paper, the link housing is prevented from pivoting, a slip occurs between the link housing and portions of the rotating pickup drive shaft on opposite sides of the link housing, and the pickup drive shaft forces the pickup roller to engage.

8. The claim 16 is allowable over the prior art of record because the teachings of the references taken as a whole do not show or render obvious the combination set forth, including: an abrasion prevention member on one side of the outer surface of the link housing and in contact with the press.

9. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rakesh Kumar whose telephone number is (517) 272-8314. The examiner can normally be reached on 8:00AM - 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathy Matecki can be reached on (571) 272-6951. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RK

April 14, 2006

  
**KATHY MATECKI**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 3600**